STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF NGL WATER SOLUTIONS PERMIAN, LLC TO APPROVE SALT WATER DISPOSAL WELL IN LEA COUNTY, NEW MEXICO.

CASE NO. 20235

APPLICATION

NGL Water Solutions Permian, LLC ("NGL"), OGRID No. 372338, through its undersigned attorneys, hereby makes this application to the Oil Conservation Division pursuant to the provisions of N.M. Stat. Ann. § 70-2-12, for an order approving drilling of a salt water disposal well in Lea County, New Mexico. In support of this application, NGL states as follows:

- (1) NGL proposes to drill the Javelin SWD #1 well at a surface location 1923 feet from the North line and 218 feet from the West line of Section 9, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well.
- (2) NGL seeks authority to inject salt water into the Silurian-Devonian formation at a depth of 17,146' to 18,859'.
- (3) NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day.
- (4) NGL anticipates using an average pressure of 2,571 psi for this well, and it requests that a maximum pressure of 3,429 psi be approved for the well.
 - (5) A proposed C-108 for the subject well is attached hereto in Attachment A.

(6) The granting of this application will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

WHEREFORE, NGL requests that this application be set for hearing before an Examiner of the Oil Conservation Division on January 24, 2018; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS & SISK, P.A.

Jennifer Bradfute

Deana Bennett

Post Office Box 2168

Bank of America Centre

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800
Attorneys for Applicant

CASE NO. _____: Application of NGL Water Solutions Permian, LLC for approval of salt water disposal well in Lea County, New Mexico. Applicant seeks an order approving disposal into the Silurian-Devonian formation through the Javelin SWD #1 well at a surface location 1923 feet from the North line and 218 feet from the West line of Section 9, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. NGL seeks authority to inject salt water into the Silurian-Devonian formation at a depth of 17,146' to 18,859'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 ½ inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said area is located approximately 17.3 miles west of Jal, New Mexico.

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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: NGL WATER SOLUTIONS PERMIAN, LLC
	ADDRESS: 1509 W WALL ST // STE 306 // MIDLAND, TX 79701
	CONTACT PARTY: SARAH JORDAN PHONE: (432) 685-0005 x1989
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Christopher B. Weyand TITLE: Consulting Engineer
	SIGNATURE: DATE: 2 12 2018
*	E-MAIL ADDRESS: chris@lonquist.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: NGL WATER SOLUTIONS PERMIAN, LLC

WELL NAME & NUMBER: JAVELIN SWD #1

i i	9 25S 34E SECTION TOWNSHIP RANGE	WELL CONSTRUCTION DATA Surface Casing	Casing Size: <u>20.000"</u>	or $ hilde{\mathbb{H}}^3$	Method Determined: Circulation	1st Intermediate Casing	Casing Size: <u>13.375"</u>	<i>or</i>	Method Determined: Circulation	2 nd Intermediate Casing	Casing Size: <u>9.625"</u>	or $ hinspace{1.5mm}$ $ hinspace{1.5mm}$	Method Determined: Circulation
	UNIT LETTER		Hole Size: <u>24.000"</u>	Cemented with: 1,275 sx.	Top of Cement: Surface		Hole Size: 17.500"	Cemented with: 2,920 sx.	Top of Cement: Surface		Hole Size: 12.250"	Cemented with: 3.608 sx.	Top of Cement: Surface
	WELL LOCATION: 1,923' FNL & 218' FWL FOOTAGE LOCATION	WELLBORE SCHEMATIC											

Production Liner

Method Determined: Calculation Casing Size: 7.625" Cemented with: 418 sx. Hole Size: 8.500"

Total Depth: 18,859'

Top of Cement: 11,900'

Injection Interval

17,146 feet to 18,859 feet

(Open Hole)

INJECTION WELL DATA SHEET

Tubing Size: 7", 26 lb/ft, P-110, TCPC from 0'-11,800' and 5.500", 17 lb/ft, P-110 TCPC from 11,800' - 17,086' Lining Material: Duoline

Type of Packer: 7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

Packer Setting Depth: 17,0862

Other Type of Tubing/Casing Seal (if applicable):

Additional Data

1. Is this a new well drilled for injection? X Yes

å

If no, for what purpose was the well originally drilled? N/A

- Name of the Injection Formation: Devonian, Silurian, Fusselman and Montoya (Top 100') 7
- 3. Name of Field or Pool (if applicable): SWD; Silurian-Devonian
- intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No. new drill Has the well ever been perforated in any other zone(s)? List all such perforated 4.
- Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: 5

Bone Spring: 9,271'

Wolfcamp: 12,246'

Strawn: 13,673'

Atoka: 13,964°

Morrow: 14,345'

	Javelin SIMD		Location - SWNW Sec 9.	SWNW Sec 9. Two 255. R 34E	TD	18.859	Directions to Sibs	Directions to the Error (al transfer M on thus, 430 43 0 miles Town CM on	Town Children
	Lea County NM						Battle Axe Road and	Battle Axe Road and travel 7.6 miles to location. Lat/Long: 32.14698100,	32.14698100, -
Energy Partners LP Vertical Injection	Vertical Injection - Devonian, Silurian, Fusselman, Montoya	1, Montoya	Drilling Cost - \$11.3MM A	AFE#	61/KB	3180'	103.482750		
Geologic Tops (MD ft)		Section	Problems	Bit/BHA	Mud	Casing	Logging	Cement	Injection String
Rustler 1007 Surface TD - 1300	ÿ	Surface Drill 24" 0' - 1300 V Set and Cement 20" Casing	Loss Circulation Hole Cleaning Wellbore stability in the Red Beds Anhydrite in the Rustler	24" Tricone 9-5/8" x 8" MM 9 jts: 8" DC 21 jts: 5" HWDP 5 " DP to surface	Spud Mud MW< 9.0	1300 of 20" 106.5# 155 STC Centralizers - bottom 2 joints and every 3rd jt thereafter, Cement basket at 200'	No Logs	Lead - 680sx of HES Extenda Cem, 13.7ppg, 4.5hrs TT Tail - 537sx of Halcem 3hr TT 50% Excess 1000psi CSD after 10hrs	
Salado 1,367' 1st Int TD - 5200	15t In Dr. 177 133 133 133 133 133 133 133 133 133	1st Intermediate Drill 3900' of 17-1/2" Hole 1300' - 5200' Set and Cement 13-3/8" Casing	Seepage Losses Possible H2S Anhydrite Salt Sections	17-1/2" PDC 9-5/8" x 8" MM 9 jts: 8" DC 21 jts: 5" HWDP 5 " DP to surface		SM A Section Casing Bowl 5300' of 13-3/8" 68# HCL80 BTC Centralizers - bottom jt, every 3rd joint in open hole and 2 jt inside the surface casing	Mudlogger on site by 1300'	2920sx of Halcem, 13.7ppg 30% Excess 1000psi CSD after 10 hrs Cement to Surface	11,800' of 7" P110 26# TCPC
ECP DV Tool - 5250 Delaware 5239 Cherry Canyon - 6192	2nd Int	2nd Intermediate	Hard Drilling in the Brushy Canyon Seepage to Complete Loss Water Flows		8.5 ppg OBM High Vis Sweeps	10M B Section 12450' of 9-5/8" 53.5# P110 BTC Special Drift to 8.535"		Stage 3: 10% Excess 1307sx Halcem 13.7ppg 1000psi CSD after 10 hrs Cement to Surface	5286' of 5-1/2" P110 17# TCPC Duoline
Brushy Canyon - 8005 DV Tool - 9000 Bone Spring - 9271	Drill 12-1 5200 Set 9-5/8" Casing an	Drill 7200' of 12-1/4" Hole 5200' - 12400' Set 9-5/8" Intermediate Casing and Cement in 3	Some Anhydrite H2S possible Production in the Bone	8" MM gits: 8" DC 8" Drilling Jars 21 jts: 8" WDP	UBD/MPD usig ADA	Externally Coat 3650' Between DV Tools DV tool at at 9000' ECP DV Tool below 1st int shoe	MWD GR Triple combo + CBL of 13-3/8" Casing	Stage 2: 50% Excess 1212sx Halcem 13.7ppg 1000psi CSD after 10 hrs	Internally Coated Injection Tubing
3rd int Liner Top - 11,900 Wolfcamp - 12246 2nd Int TD - 12,400	S		Spring and Wolfcamp Ballooning is possible in Cherry Canyon and Brushy if Broken Down	S. DP to Surface		Centralizers - bottom jt, 100' aside of DV tool, every 3rd joint in open hole and 5 within the surface casing		Stage 1: 50% Excess 1090sx Halcem 15.6ppg. 1000psi CSD after 10hrs	
Strawn - 13673 Atoka - 13964 Morrow - 14345 Miss Lst - 16609 Woodford - 16933 Perm Packer - 17,086 3rd Int TD - 17,146	3rd Inter Drill 4 8-1/2 12400 Set 7-5/8" Cement in 8	3rd Intermediate Drill 4746' of 8-1/2" Hole 12400 - 17146' Set 7-5/8" Liner and Cement in Single Stage	High Pressure (up to 15ppg) and wellbore instability (fracturing) expected in the Atoka 150 target radius Hard Drilling in the Morrow Clastic	8-1/2" PDC 6-3/4" MM 9 jts: 6" DC 21 jts: 5" HWDP 5" DP to Surface	12.5 ppg OBM UBD/MPD using ADA	5246' of 7-5/8" 39# O125 - DTL (F14) F1 (Gas Tight) VersaFlex Packer Hanger Centralizers on and 1 jt above shoe jt and then every 2nd jt.	MWD GR Triple combo, CBL of 9- 5/8" Casing	418sx Neocem 12.9 ppg 50% Excess 1000psi CSD after 12hrs	7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp
Devonian - 17,126 Fusselman - 18185 Montoya - 18,759' TD - 18,859'	Injection Drill 1713 of	Injection Interval Drill 1713 of 6-1/2" hole 17146 - 18859'	Chert is possible Loss of Circulation and or Flows are expected BHT estimated at 280F	6-1/2" PDC 4-3/4"MM 9 jts: 4-3/4" DC 4-3/4" Drilling Jars 18 jts: 4" FH HWDP 4" FH DP to Surface	Brine Water - flows possible	Openhole completion	MWD GR Triple Combo	Displace with 3% KCl (or heavier brine if necessary)	Elastomer and full Inconel 925 trim

NGL Water Solutions Permian, LLC

Javelin SWD No. 1

FORM C-108 Supplemental Information

III. Well Data

A. Wellbore Information

1.

Well	information
Lease Name	Javelin SWD
Well No.	1
Location	S-9 T-25S R-34E
Footage Location	1,923' FNL & 218' FWL

2.

a. Wellbore Description

Casing Information								
Туре	Surface	Intermediate	Production	Liner				
OD	20"	13.375"	9.625"	7.625"				
WT	0.500"	0.480"	0.545"	0.500"				
ID	19"	12.415"	8.535"	6.625"				
Drift ID	18.812"	12.259"	8.535"	6.500"				
COD	21.00"	14.375"	10.625"	7.625"				
Weight	106.5 lb/ft	68 lb/ft	53.5 lb/ft	39 lb/ft				
Grade	J-55	HCL-80	P-110	Q-125				
Hole Size	24"	17.5"	12.25"	8.5"				
Depth Set	1,300'	5,200'	12,400'	11,900' - 17,146'				

b. Cementing Program

	Cement Information								
Casing String	Surface	Intermediate	Production	Liner					
Lead Cement	Extenda Cem	-	-	-					
Lead Cement Volume	680 sx	-	-	-					
Tail Cement	Halcem	Halcem	Halcem	Neocem					
Tail Cement Volume	595 sx	2,920 sx	Stage 1: 1,307 sx Stage 2: 1,212 sx Stage 3: 1,090 sx	418 sx					
Cement Excess	50%	30%	50%, 50%, 10%	50%					
тос	Surface	Surface	Surface	11,900'					
Method	Circulate to Surface	Circulate to Surface	Circulate to Surface	Logged					

3. Tubing Description

	Tubing Information								
OD	7"	5.5"							
WT	0.362"	0.304"							
ID	6.276"	4.892"							
Drift ID	7.875"	6.050"							
COD	6.151"	4.653"							
Weight	26 lb/ft	17 lb/ft							
Grade	P-110 TCPC	P-110 TCPC							
Depth Set	0'-11,800'	11,800′ -17,086′							

Tubing will be lined with Duoline.

4. Packer Description

7-5/8" x 5-1/2" TCPC Permanent Packer with High Temp Elastomer and Full Inconel 925 trim

B. Completion Information

1. Injection Formation: Devonian, Silurian, Fusselman, Montoya (Top 100')

2. Gross Injection Interval: 17,146′ – 18,859′

Completion Type: Open Hole

3. Drilled for injection.

4. See the attached wellbore schematic.

5. Oil and Gas Bearing Zones within area of well:

Formation	Depth
Bone Spring	9,271
Wolfcamp	12,246
Strawn	13,673'
Atoka	13,964'
Morrow	14,345'

VI. Area of Review

No wells within the area of review penetrate the proposed injection zone.

VII. Proposed Operation Data

1. Proposed Daily Rate of Fluids to be Injection:

Average Volume: 40,000 BPD Maximum Volume: 50,000 BPD

- 2. Closed System
- 3. Anticipated Injection Pressure:

Average Injection Pressure: 2,571 PSI (surface pressure)
Maximum Injection Pressure: 3,429 PSI (surface pressure)

- 4. The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Bone Spring and Wolfcamp formations. Attached are produced water sample analyses taken from the closest wells that feature samples from the Delaware, Bone Spring, Wolfcamp, Strawn, Atoka, and Morrow formations.
- 5. The disposal interval is non-productive. No water samples are available from the surrounding area.

VIII. Geological Data

The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and the Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia) features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a tremendous Salt Water Disposal horizon.

A. Injection Zone: Siluro-Devonian Formation

Formation	Depth
Rustler	1,007′
Salado	1,367'
Delaware	5,239'
Cherry Canyon	6,192'
Brushy Canyon	8,005′
Bone Spring	9,271'
Wolfcamp	12,246′
Strawn	13,673′
Atoka	13,964′
Morrow	14,345′
Mississippian Lime	16,609′
Woodford	16,933′
Devonian	17,126′
Fusselman	18,185'
Montoya	18,759′

B. Underground Sources of Drinking Water

There are no water wells within 1-mile of the proposed Javelin SWD #1 location. Water wells in the surrounding area have an average depth of 322 ft and an average water depth of 224 ft generally producing from the Santa Rosa. The upper Rustler may also be another USDW and will be protected.

IX. Proposed Stimulation Program

Stimulate with up to 50,000 gallons of acid.

X. Logging and Test Data on the Well

There are no logs or test data on the well. During the process of drilling and completion resistivity, gamma ray, and density logs will be run.

XI. Chemical Analysis of Fresh Water Wells

There are no water wells that exist within one mile of the well location.

XII. Affirmative Statement of Examination of Geologic and Engineering Data

Based on the available engineering and geologic data we find no evidence of open faults or any other hydrologic connection between the disposal zone (in the proposed <u>Javelin SWD #1</u>) and any underground sources of drinking water.

NAME: John C. Webb

TITLE: Sr. Geologist

SIGNATURE: Jehn Wold

DATE: NOV-1, 2018

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

Date: 12/6/2018

Phone: (512) 600-1764

State of New Mexico

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505 APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE OGRID Number 372338 Operator Name and Address NGL WATER SOLUTIONS PERMIAN, LLC 1509 W WALL ST, STE 306 MIDLAND, TX 79701 API Number TBD Well No. Property Code Property Name JAVELIN SWD 7. Surface Location UL - Lot Section Township Range Lot Idn Feet from N/S Line Feet From E/W Line County E 09 25S 34E N/A 1923 NORTH 218 WEST LEA Proposed Bottom Hole Location UL - Lot E/W Line Section Township Range Lot Idn Feet from N/S Line Feet From County 9. Pool Information Pool Name Pool Code SWD; Silurian-Devonian 96101 **Additional Well Information** 12 Well Type 15. Ground Level Elevation Work Type 13. Cable/Rotary Lease Type N SWD Private 3.355 18. Formation Spud Date 6. Multiple Proposed Depth Contractor Siluro-Devonian TBD ASAP 18,859 N Depth to Ground water Distance from nearest fresh water well Distance to nearest surface water > 1 mile 2,900 We will be using a closed-loop system in lieu of lined pits 21. Proposed Casing and Cement Program Hole Size Type **Casing Size** Casing Weight/ft Setting Depth Sacks of Cement Estimated TOC Surface 24" 20° 106.5 lb/ft 1.300 1.275 Surface 17.5" 13.375 68 lb/ft 5,200 2,920 Intermediate Surface Production 12.25" 9.625 53.5 lb/ft 12,400 3,608 Surface Prod. Liner 8.5" 7.625 39 lb/ft 17,146' 418 11,900 N/A 7" 0'-11,800' N/A N/A Tubing 26 lb/ft Tubing 11,800' - 17,086' N/A 5.5" 17 lb/ft N/A N/A Casing/Cement Program: Additional Comments See attached schematic. 22. Proposed Blowout Prevention Program Working Pressure Test Pressure Manufacturer Type Double Hydrualic/Blinds, Pipe 8,000 psi TBD - Schaffer/Cameron 10,000 psi ^{23.} I hereby certify that the information given above is true and complete to the best OIL CONSERVATION DIVISION of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC ⊠, if applicable Approved By: Signature: Printed name: Christopher B. Weyand Title: Title: Consulting Engineer Approved Date: **Expiration Date:** E-mail Address: chris@longuist.com

Conditions of Approval Attached

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102
Revised August 1,
2011
Submit one copy to appropriate
District Office

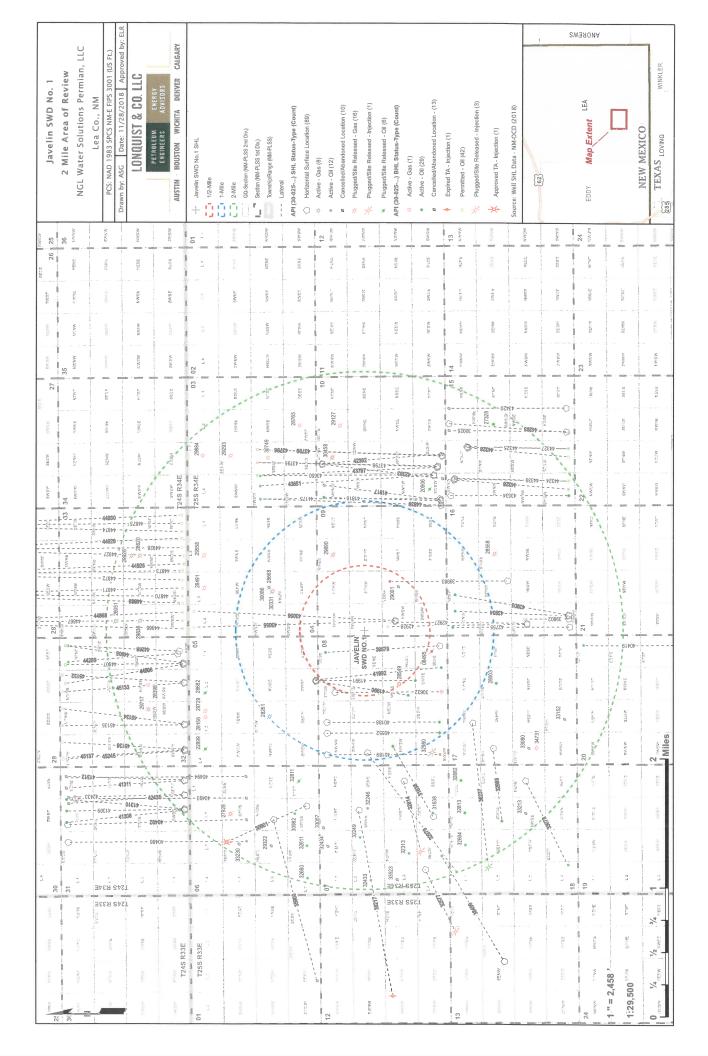
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 A	API Number	•	² Pool Code ³ Pool Name								
				96101			SWD; Siluria	n-Devonia	n		
⁴ Property C	Code				⁵ Property l	Name			6 ,	Well Number	
					JAVELIN	SWD				1	
OGRID I	vo.	·	8 Operator Name 9 Elevation								
372338			NGL WATER SOLUTIONS PERMIAN, LLC 3355.00"±								
	№ Surface Location										
UL or lot no.		Township	Range Lot Idn Feet from the North/South line Feet from the East/West line					County			
E	09	25 S	34 E	N/A	1923'	NORTH	218'	WES	WEST LEA		
			" Be	ottom Ho	le Location I	f Different Fron	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Fect from the	North/South line	Feet from the	Eas	t/West line		County
12 Dedicated Acres	13 Joint o	r Infill 14 C	onsolidation	Code 15 Or	rder No.						

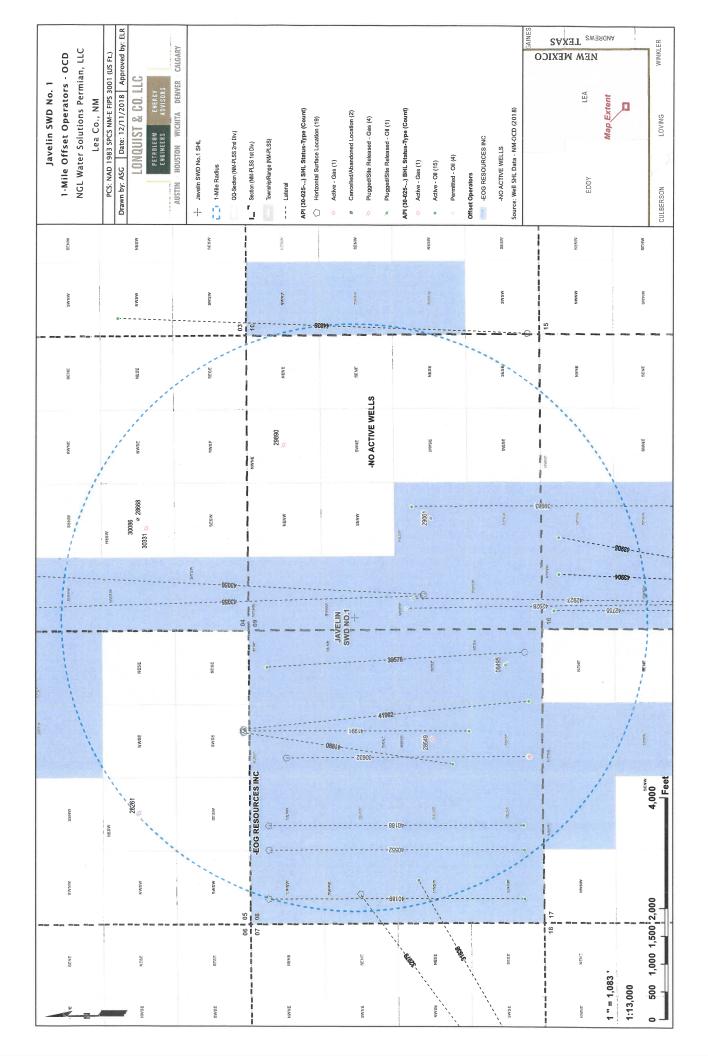
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

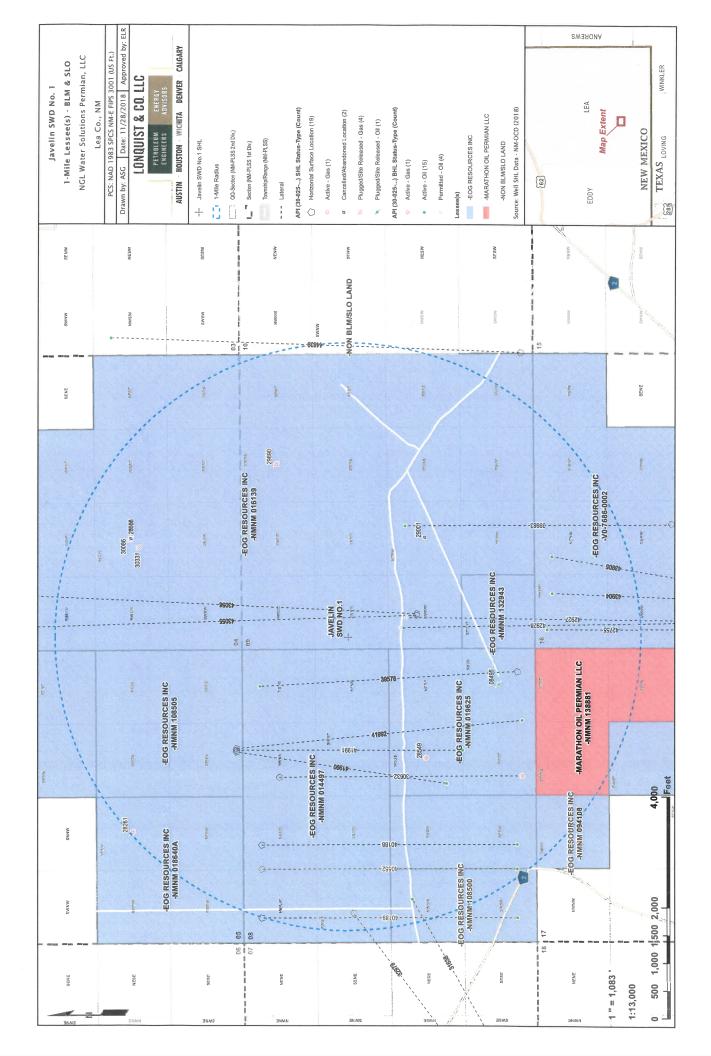
16				
1"				"OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is true and complete to
				the best of my knowledge and belief, and that this organization either owns a
				working interest or unleased mineral interest in the land including the
923,				proposed bottom hole location or has a right to drill this well at this location
1 %				pursuant to a contract with an owner of such a mineral or working interest.
				or to a voluntary pooling agreement or a compulsory pooling order
				heretyfore entered by the division.
				12/12/2019
				Signature Date
				Salarita Siliv
		SECTION		Chris Weyand
				Printed Name
		9		chris@longuist.com
-				E-mail Address
L ₂₁₈ '				
210	PROPOSED JAVELIN			*SURVEYOR CERTIFICATION
	SWD 1			
	NMSP-E (NAD27)			I hereby certify that the well location shown on this plat was
1	N: 418,188.80' E: 763,405.15'			plotted from field notes of actual surveys made by me or
				under my supervision, and that the same is true and correct
	NMSP-E (NAD83) N: 418,246.87'			to the best of my belief.
	E: 804,590.99'			11/27/2018
	Lat: N32'08'49.13" Long: W103'28'57.90"			
	Long. W100 20 07.30			Date of Survey
1				Signature and Seal of Professional Survey N . Bay
				SEN MEXICO
1				
				(25114)
1				25114 Buy W. Bank H.
1				
				Certificate Number
Committee of the Commit			CHARLES AND ADDRESS OF THE PARTY OF THE PART	II VIJII JAIA SIII.



Javelin SWD No. 1 1 Mile Area of Review List

				T MILE ALEG OF NEVIEW LIST				
API (30-025)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	DATE DRILLED
3002508495	PRE-ONGARD WELL #001	0	Ь	PRE-ONGARD WELL OPERATOR	5457	32.1395493000	-103.485534700	1/1/1900
3002528261	HALF 5 FEDERAL COM #001	g	Ь	EOG RESOURCES INC	15350	32.15771480000	-103.49403380000	7/23/1983
3002528549	LONGWAY DRAW FEDERAL COM #001	9	Α	EOG RESOURCES INC	15700	32.1431847000	-103.489799500	12/31/9999
3002528668	PRE-ONGARD WELL #001C	0	С	PRE-ONGARD WELL OPERATOR	0	32.1576864342	-103.476955195	12/31/9999
3002529001	PRE-ONGARD WELL #001	0	С	PRE-ONGARD WELL OPERATOR	0	32.1431665248	-103.476974969	12/31/9999
3002529890	PITCHFORK, 8703 JV-P #001	6	Р	BTA OIL PRODUCERS	15325	32.1504402000	-103.472686800	4/23/1987
3002530086	PITCHFORK 4 FEDERAL #001	9	Ь	EOG RESOURCES INC	15230	32.1576958000	-103.476982100	12/31/9999
3002530331	PITCHFORK 4 FEDERAL #002	9	Ь	EOG RESOURCES INC	13845	32.15728380000	-103.47747040000	4/24/1988
3002530632	DIAMOND 8 FEDERAL #001	9	Α	EOG RESOURCES INC	9507	32.1504517000	-103.490867600	10/9/1989
3002532631	RED HILLS NORTH UNIT #705	0	А	EOG RESOURCES INC	12244	32.1395721000	-103.507270800	8/26/1994
3002532979	RED HILLS NORTH UNIT #709H	0	Α	EOG RESOURCES INC	12265	32.1468353000	-103.498802200	6/14/1996
3002539578	DIAMOND 8 FEDERAL COM #002H	0	Α	EOG RESOURCES INC	9432	32.1386414000	-103.484794600	2/11/2011
3002539983	JOLY 16 STATE COM #001H	0	Α	EOG RESOURCES INC	9466	32.1309433000	-103.476257300	1/6/2011
3002540188	DIAMOND 8 FEDERAL COM #003H	0	Α	EOG RESOURCES INC	9492	32.1513634000	-103.494796800	5/28/2012
3002540189	DIAMOND 8 FEDERAL COM #004H	0	Α	EOG RESOURCES INC	9473	32.1513710000	-103.499061600	7/16/2012
3002540552	DIAMOND 8 FEDERAL COM #005H	0	Α	EOG RESOURCES INC	9505	32.1513672000	-103.496215800	6/22/2012
3002541990	DIAMOND 5 FEDERAL COM #006H	0	Α	EOG RESOURCES INC	9473	32.1525650000	-103.489379900	3/13/2015
3002541991	DIAMOND 5 FEDERAL COM #007H	0	Α	EOG RESOURCES INC	9459	32.1525650000	-103.489280700	3/28/2015
3002541992	DIAMOND 5 FEDERAL COM #008H	0	Α	EOG RESOURCES INC	9471	32.15256500000	-103.48918910000	4/11/2015
3002542755	ANDELE 16 STATE COM #702H	0	Α	EOG RESOURCES INC	12578	32.1239623900	-103.482376800	9/12/2015
3002542927	MOSLEY 16 STATE COM #002H	0	z	EOG RESOURCES INC	0	32.1288002700	-103.481894900	12/31/9999
3002542928	MOSLEY 16 STATE COM #501H	0	Z	EOG RESOURCES INC	0	32.12879997000	-103.48199160000	12/31/9999
3002543055	HOLYFIELD 9 FEDERAL #001H	0	Z	EOG RESOURCES INC	0	32.14360989000	-103.48151420000	12/31/9999
3002543056	HOLYFIELD 9 FEDERAL #002H	0	Z	EOG RESOURCES INC	0	32.1436099900	-103.481417300	12/31/9999
3002543904	ANDELE 16 STATE COM #703H	0	Α	EOG RESOURCES INC	12527	32.1240999000	-103.480893000	8/1/2017
3002543905	ANDELE 16 STATE COM #704H	0	A	EOG RESOURCES INC	12535	32.1240998000	-103.480779900	8/3/2017
3002544839	OSPREY 10 #301H	0	А	EOG RESOURCES INC	10289	32.1383513000	-103.466287600	6/25/2018





api 3002508407 3002520261					JAVEIII SVV	D #T: O	Javelin SWD #1: Offsetting Produced water Analysis	Water Analysis							
	section township range unit county	range	unit cou	form	nation	ph tds	_mgL sodium_mgL	calcium_mgT	iron_mgL m	magnesium_mgt	manganese_mgl	chloride_mgL	bicarbonate_mgl	sulfate_mgL	co2_mgL
	10 265	33E	G LEA	A DELAWARE		29	293925					184000	85	210	
	18 235	34E	K LEA	A BONE SPRING		20	204652					130000	512	260	
CORIANDER AUC STATE #002 30025335/4	1 235	32E	H LEA	A BONE SPRING		5.2		24176	0	3815		167962	61.1	165	
THISTLE UNIT #071H 3002542425	27 235	33E	A Lea	BONE SPRIN	IG 1ST SAND 5.	6 1	71476.3 55363.2	9140	40.4	1023	1.1	104576.4	244	260	770
BELL LAKE 19 STATE #002H 3002541515	19 245	33E	O Lea	BONE SPRIN	IG 2ND SAND 6	6.2	47148	8 6419	15	854	0	86572	232	029	240
BELL LAKE 19 STATE #004H 3002541517	19 245	33E	O Lea	BONE SPRIN	4G 2ND SAND 6	6.3	47537	0569	11	988	0	88389	171	650	210
SALADO DRAW 6 FEDERAL #001H 3002541293	6 265	34E	M Lea	BONE SPRIN	G 3RD SAND 6	6.5 99	99612.7 34586.5	3244	10.3	417.7	0.39	59986.5	158.6	820	20
GAUCHO UNIT #011H 3002541184	17 225	34E	O Lea	BONE SPRIN	IG 3RD SAND 6	6.5	48879	9 6182	11	802	0.12	88836	122	1240	20
SNAPPING 2 STATE #014H 3001542688	2 265	31E	P EDDY	DY WOLFCAMP	7	7.3 813	81366.4 26319.4	1 2687.4	26.1	326.7		50281.2		399.7	100
BELLOQ 2 STATE #002H 3001542895	2 235	31E	C EDDY	DY WOLFCAMP	9	6.8 119	19471.8 37359.2	5659.1	22.4	746.1		73172.5		1035.5	250
PRONGHORN AHO FEDERAL #001 3002526496	6 235	33E	G LEA	A STRAWN	u,	5.5		20.1	0	12.2		35.5	61.1	48.8	
ANTELOPE RIDGE UNIT #002 3002520444	4 245	34E	B LEA	A ATOKA	9	6.7 5	51475					31000	317	340	
CUSTER MOUNTAIN UNIT #001 3002520756	9 245	35E	K LEA	MORROW		28	282741					176800	191	920	